G R S 58]

Previous references

File No

191

Enclosure 2

Serial Nos 1—7

(Ex)

Later references

GENERAL AND REVENUE SECRETARIAT

Enclosures to

Serial Nos 1

Part B for

SUBJECT

GPB—10 000—26 3 15

Design No I

ESTIMATE

OF THE

PROBABLE COST OF CONSTRUCTING

A VILLAGE SCHOOL BUILDING

Prepared by

Mr V H KARVE

Superintending Engineer Central

Amount of Estimate—Rs 695

DESIGN No I

Estimate of the probable cost of constructing a Village School Building

Detail of work	No	Dimensions L	Dimensions B	Dimensions D	Quantity	Total
EARTHWORK EXCAVATION						
Longitudinal walls	2	20	$2\frac{1}{2}$	2	200	
End walls	2	11	$2\frac{1}{2}$	2	110	
Verandah walls front	1	19_8	$1\frac{5}{8}$	2	64	
Verandah walls ends	2	4_8	$1\frac{5}{8}$	2	27	
Steps	1	5	1	$\frac{1}{2}$	3	
Filling in room	1	$15\frac{1}{2}$	$11\frac{1}{8}$	1	178	
Filling in verandah	1	16_8	$4\frac{5}{8}$	$\frac{1}{2}$	39	
Total Earthwork, c ft					621	23 c yds
BURNT STONE IN CLAY						
Filling foundation same as above except filling					404	
BASEMENT.						
Longitudinal walls	2	$19\frac{1}{2}$	2	$1\frac{1}{2}$	117	
End walls	2	$11\frac{1}{4}$	2	$1\frac{1}{2}$	69	
Verandah wall in front	1	19_2	$1\frac{1}{8}$	$\frac{3}{4}$	16	
Do ends	2	4_8	$1\frac{1}{8}$	$\frac{3}{4}$	8	
Steps	1	5	1	–	1	
Total					615	
Deductions						
Sill stone of door way	1	5	2	$\frac{1}{2}$	5	
Steps	1	5	1	$\frac{1}{3}$	2	
Total Deductions					7	
Balance stone in clay c ft.						608
BRICK IN CLAY SUPERSTRUCTURE						
Longitudinal walls	2	19	$1\frac{1}{2}$	$11\frac{5}{8}$	663	
End walls	2	12	$1\frac{1}{2}$	$11\frac{5}{8}$	419	
Gable walls	2	$13\frac{1}{2}$	$1\frac{1}{2}$	$\frac{13\frac{1}{2}}{6}$	91	
Total					1 173	
Deductions.						
Doorways	1	$3\frac{1}{2}$	$1\frac{1}{2}$	$6\frac{3}{4}$	35	
Lintel stone of doorway	1	5	$1\frac{1}{2}$	$\frac{1}{2}$	4	
Windows	3	$3\frac{1}{2}$	$1\frac{1}{2}$	$3\frac{3}{4}$	59	
Sill and Lintel stone of windows	6	5	$1\frac{1}{2}$	$\frac{1}{2}$	23	
Brick in chunam—						
Cheeks of doors	1	$13\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{2}$	15	
Cheeks of windows	3	$7\frac{1}{2}$	$\frac{3}{4}$	$1\frac{1}{2}$	25	
Top of walls	1	68	$\frac{1}{2}$	$\frac{3}{4}$	77	
Total Deductions					238	
Balance Brick in clay c ft						935
Brick in chunam as per above deductions, c. ft						117
CHUNAM PLASTERING						
Wall inside room	1	56		12	672	
Wall inside gable	2	12		$\frac{1}{2}$	48	
Outside all round	1	68		$11\frac{1}{4}$	765	
Gables	2	15		–	75	
Total					1 560	
Deductions						
Door	1	$3\frac{1}{2}$		$6\frac{3}{4}$	24	
Windows	3	$3\frac{1}{2}$		$3\frac{3}{4}$	39	
Total Deductions					63	
Balance Chunam Plastering, sqrs						14 97
White and color washing as per chunam plastering sqrs.						14 79

DESIGN No I—*concluded*

Detail of work.	No	Dimensions.			Quantity	Total
		L	B	D		
ROOFING WITH 1ST CLASS MANGALORE TILES AND TEAK RAFTERS.						
Flat and gable	1	20	27½		64	
Portable	1	7	6		42	
Total					606	
Deduct for portable	1	8	4		3	
Balance roofing as						
Cutting new pillars with base cap complete (7 high) 9 ×9	No				No	
HONNEY WOOD WORK.						
Rafts to main building 3 from comb to eave	12	8	3	4	8 0	
Collars	6	7	3	4	3 5	
Rafts to verandah	6	9	3	4	4 0	
Valley rafters of portable	2	11	3	5	2 9	
Rafters of portable	1	7	3	5	0 8	
Rafts to gable	6	3	3	4	1 63	
Jack rafts to verandah	2	2	3	4	0·42	
Bressummer	1	16	4	6	2 5	
Bressummer attended to 11 planking	2	5	3	3	09	
Wallplates	2	17	4	3	2 83	
Total cft						28 14
Fals	N				No	3
Barge board of front gable	1	10	2		sq ft	20
Fascia board in front	1	16			ft	16
Side	N				No	3
SLAB STONES						
Outstep	1	5	1	4	5	
Sill and lintel to door	2	5	1	6	18	
Sill and lintel to windows	2×3	5	1	6	45	
Total slab stones ft						68
STONE FLAGGING OVER 3 CONCRETE AND CEMENT POINTING						
Verandah	1	19	5	3	119	
Total sq						1 12
Plinth face ft						54
Flooring with Henkvas patent clay tiles laid on natural adopted with cement—						
Room	1	16	12		192	1 92
Honney wood doors battened with bars &c	1	3		6	sq ft	19
Windows battened with bars &c	3	3		3	sq ft	29
Painting doors and windows					sq	9½
POINTING WITH CHUNAM						
Basement	1	50	1		76	
Do	1	19	½		10	
Verandah	1	31	1		31	
Total sq						1 17
Honney wall plank gable thick at ends of verandah	2	6	2½	—	33	
Rubble Trials					rft.	27½
Zinc gutters to all round					rft	2
Filling ground in plinth					R	10

ABSTRACT

Items of Work	Per	Rate Rs a p	Quantity	Cost
Earthwork excavation	c yds	0 2 0	23	3
Stone in clay—foundation and basement	c ft	0 1 6	608	57
Brick in clay—superstructure	c ft	0 2 0	936	117
Brick in chunam	c ft.	0 2 9	117	20
Chunam plastering	sqrs	2 8 0	14 97	38
Whitewashing	sqrs	0 3 0	14 97	3
Roofing with 1st class Mangalore tiles and reapers	sqrs	18 0 0	5 74	103
Cut stone pillars	No	10 0 0	4	40
Honney wood work	c ft	2 6 0	28 14	67
Finials	each	1 0 0	3	3
Barge board for front gable	sq ft	0 8 0	20	10
Eave board in front	rft.	0 6 0	16	6
Sun shades	each	10 0 0	3	30
Slab stones	sq ft.	0 3 0	68	12
Stone flagging verandah over 3 concrete and cement pointing	sqrs	20 0 0	1 12	22
Plain cornice	rft	0 3 0	54	10
Flooring with Henkey s patent clay tiles laid in mortar pointed with cement.	sqrs	27 0 0	1 92	52
Honney wood doors battened	sq ft	0 11 0	19	13
Honney wood windows battened with iron bars &c	sq ft	0 15 0	29	27
Pointing with chunam	sqrs	1 4 0	1 17	1
Honney wood planking ½ thick at ends of verandah	sqrs	20 0 0	33	7
Painting doors and windows	sqrs	2 0 0	1 03	2
Zinc sheets for valley	rft	0 4 0	22	6
Ridge tiles	rft	0 3 0	27½	5
Levelling ground	lump sum			10
Total				665
Contingency at 5 per cent				33
Grand Total				698

Design No II

ESTIMATE

OF THE

PROBABLE COST OF CONSTRUCTION

A VILLAGE SCHOOL BUILDING

Prepared by

Mr V H KARVE

Superintending Engineer Eastern Circle

Amount of Estimate—Rs 1 068

DESIGN No II

Estimate of the probable cost of constructing a Village School Building

Details of work	No	Dimensions L	B	D	Content	Total
EARTHWORK EXCAVATION						
Long walls	2	34	2	2	340	
End walls		11		2	110	
Varandah wall footing	1	33	1		109	
Do end	2	4	1½	2	24	
Steps	1	7	1	½	4	
Filling Between—						
Room	1	30½	11½	1	339	
Varandah	1	30	3	½	14	
Total Earthwork c ft					1000	40 cd
BURNT STONE IN CLAY						
Foundation as per estimate c ft					589	
BASEMENT						
Long walls	2	33	2	1½	201	
End walls	2	11	2	1½	69	
Varandah wall footing	1	33½	1½	½	28	
Do end	2	4½	1½	½	7	
Steps	1	7	1		4	
Total c ft					898	
Deduct						
Steps	1	7	1	½	2	
Sills to doors	1	5	2	½	5	
Total Deduct c ft					7	
Basement Stone Masonry Flagging and basement c ft					—	891
BURNT BRICK IN CLAY SUPERSTRUCTURE						
Long walls		33	1½	11½	1111	
End walls	2	12	1½	11½	419	
Gables of end walls	2	13½	1	13½/6	91	
Total ft					1661	
Deduct						
Doors	1	3	1	6½	35	
Windows	6	3½	1	3	118	
Ventilators	1	5	1½	½	4	
Sills and intl to windows	2×6	5	1½	½	45	
Back arch m—						
Cheeks of doors and windows	1	58½	1½	½	66	
Top of walls	1	96	1½	¾	108	
Total Deductions					376	
Balance superstructure Brick Clay c ft						1285
Brick hammas per above deductions c ft						14
STONE SLAB						
Sill to doorway	1	5	2	6	10	
Sills and intl to windows and doors	13	5	1½	6	98	
Over steps	1	7	1	4	7	
Total Slab Stones sq ft					—	115
Dressed top pillars (7 × ¾ × ¾ with base and cap complete No						8
PLASTERING WITH CHUNAM						
Inside rooms	1	84		12	1008	
Gable	2	12			48	
Outside all round	1	96		11½	1080	
Gables	2	15		5	75	
Total sq ft					2131	

DESIGN No II—*continued*

Details of work	No	Dimensions L	B	D	Contents	Total
Deductions						
Doors	1	$3\frac{1}{2}$		$6\frac{3}{4}$	24	
Windows	6	$3\frac{1}{2}$		$3\frac{1}{4}$	79	
Total Deductions					103	
Balance Chunam Plastering, sqrs						20 28
White and color washing as per chunam plastering sqrs						20 28
POINTING WITH CHUNAM						
Basement all round ..	1	63		$1\frac{1}{2}$	95	
Do	1	33		$\frac{1}{2}$	16	
Do	1	45		1	45	
Total sqrs						1 56
Flooring with Henke s patent clay tiles over 3 concrete and pointed in cement—						
Room	1	30	12		360	
Total sqrs						3 60
STONE FLAGGING OVER 3 CONCRETE AND CEMENT POINTING						
Verandah	1	33	6		198	
Total sqrs						1 98
ROOFING WITH 1ST CLASS MANGALORE TILES						
Front and rear	1	$34\frac{1}{2}$	26		897	
Front gable	1	$7\frac{1}{2}$	7		53	
Total sqrs					950	
Deduct for front gable	1	area 7	$\frac{3}{4}$		28	
Balance roofing sqrs						9 22
Ridging	1	$41\frac{1}{2}$			rft	$41\frac{1}{2}$
WOOD WORK HONNEY 3 FROM C TO C						
Rafters front and rear	2×11	$8\frac{1}{2}$	3	4	15 58	
Collars ..	11	$7\frac{1}{2}$	3	4	6 87	
Verandah	2×5	9	3	4	7 50	
Jack rafters to verandah and gable	10	$3\frac{3}{4}$	3	4	3 13	
Valley rafters	2	11	3	5	2 50	
Ridge piece	1	$7\frac{1}{2}$	3	5	0 80	
Bressummer	1	27	4	6	4 50	
End beams for planking	2	6	3	3	75	
Wall plates ..	2	$31\frac{1}{2}$	4	3	5 25	
Total Honney wood work c ft						46 98
Honney wood door battened	1	3		$6\frac{1}{4}$	19	
Total sq ft						19
Honney wood windows battened with iron bars—						
Windows	6	3		$3\frac{1}{4}$	59	
Total sq ft						59

DESIGN No. II—*concluded*

Description of Work	No.	Dimensions			Cost	Total
		L	B	D		
Plastering all over	1	41			sft	41
Fly wire	No.				No.	3
Lead band	1	30			rft	30
Barge board at front gable	1	10	2		½ ft	20
Snow sheds	No.				No.	2
Patent glazed doors and windows	sq.					2 00
Honeycomb pickwork with thick ate ls of cement and lime	2	6	½		sq.	3
Zinc sheet for valley rft					ft	2
Levelling ground and Rs						15

ABSTRACT

Items of Work	Per	Rate	Quantity	Total
		Rs a p		
Earthwork excavation and filling basement	c yd	0 2 0	40	5
Stone in clay foundation and basement	c ft	0 1 6	891	83
Brick in clay superstructure	c ft	0 2 0	1 280	161
Brick in chunam cheeks of doors and windows and top of walls	c ft	0 2 9	174	30
Chunam plastering	sqrs	2 8 0	20 28	51
Whitewashing	sqrs	0 3 0	20 28	4
Roofing with Mangalore tiles in the teak reapers	sqrs	18 0 0	9 22	166
Cut stone pillars	No	10 0 0	8	80
Honney wood work with oiling	c ft	2 6 0	46 88	112
Finials	No	1 0 0	3	3
Barge board for front gable	sq ft	0 8 0	20	10
Eave board in front	rft	0 6 0	30	11
Sun shades	No	10 0 0	2	20
Slab stones	sq ft	0 3 0	115	22
Stone flagging over 3 concrete and cement pointing	sqrs	20 0 0	1 98	40
Plain cornice	rft	0 3 0	71	13
Flooring with Henke s patent clay tiles laid in mortar pointed with cement	sqrs	27 0 0	3 60	97
Honney wood doors battened	sq ft	0 11 0	19	13
Honney wood windows battened with iron bars	sq ft	0 15 0	59	55
Pointing with chunam	sqre	1 4 0	1 56	2
Honney wood planking ½ thick at end of verandah	sqre	20 0 0	33	7
Painting doors and windows	sqre	2 0 0	2 00	4
Zinc sheets valley	rft	0 4 0	22	5
				994
Ridge tiles	rft	0 3 0	41	8
Levelling ground	lump sum Rs			15
Total				1 017
Contingencies at 5 per cent				51
Grand Total				1,068

Design No III

ESTIMATE

OF THE

PROBABLE COST OF CONSTRUCTING

A VILLAGE SCHOOL BUILDING

Prepared by

Mr V H KARVE

Superintending Engineer Eastern Circle

Amount of Estimate—Rs 2 069

DLSIGN No III

Estimate of the probable cost of constructing a Village School Building

Details of work	No	Dimensions L.	B	D	Contents	Total
EARTHWORK EXCAVATION						
Lon itudinal walls	4	8	2½	2	5C0	
End walls	4	11	2½	2	2 0	
Cross walls	2	17	2½	2	170	
Verandah walls	2	17	1½	2	110	
Steps	2	7	2	½	14	
FILLING BASEMENT						
Rooms	2	93¹	11½	1½	811	
Do	1	17½	11½	1½	302	
Verandah	2	17½	4⅝	1	153	
Total Earthwork c. ft					2 240	87 yds
STONE IN CLAY						
Foundation as per excavation c ft.					1 0 4	
B SEMENT						
Longitudinal walls	4	27½	2	2	440	
End walls	4	11½	2	2	184	
Cross walls	4	17½	2	2	140	
Verandah walls	2	17½	1½	1½	53	
Steps	2	7	2	½	14	
Total					1 905	
Ded t ons						
Deduct for sill of doors	6	5	2	½	30	
Steps	2	7	2	½	9	
Total Deductions					39	
Balance stone in clay foundation and basement c. ft.						1 866
BURNT BRICK IN CLAY—SUPERSTRUCTURE						
Longitudinal walls	4	27	1½	11¾	1 904	
End walls	4	12	1½	11¾	846	
Gables	6	13½	1½	13½ / 6	273	
Cross walls	2	18	1½	11¾	635	
Total					3 6 8	
Deductions						
Doors	6	3½	1½	6¾	213	
Lint l over doors	6	5	1½	½	23	
Windows	8	3½	1½	3¾	1 8	
Do	8	2½	1½	3¾	113	
Sill an l lintel of windows large	2 × 8	5	1½	½	60	
Do small	2 × 4	7½	1½	¾	45	
Ventilators at gable ends	4	2	1½	1¾	21	
S ll stones to do	4	3½	1½	½	11	
BRICK IN CHUNAM						
Cheeks of doors	6	13½	1½	1	1 2	
Do windows	16	7½	1½	1	180	
Do ventilators	4	5½	1½	1	33	
Top of walls	1	2 2	1½	1	333	
Total Deductions					1 31	

DESIGN No III —*continued*

Details of work.	No	Dimensions L	B	D	Quantity	Total
Balance superstructure brick in clay c. ft						2 346
Brick in chunam as per above deductions c ft						668
STONE SLABS.						
Sill and lintel stones of doors and windows	2×16	5	1½	(6″)	240	
Windows small	4 ×4	7½	1⅛	(6)	90	
Ventilators at gable ends	4	3	1¾	(6′)	21	
Steps	2	7	2	(4′)	28	
Total Stone Slabs						379
CHUNAM PLASTERING						
Inside —Side rooms	2	72		12¼	1,764	
Centre room	1	60		12¼	735	
Gables	8	12		–	192	
Outside —All round	1	174		11¼	1,958	
Gables	4	15		–	150	
Total					4 799	
Deductions						
Doors	6	3½		6¾	142	
Windows	8	3⅛		3¾	105	
Do	8	2⅛		3¾	75	
Ventilators	4	2		1¾	14	
Total Deductions					336	
Balance chunam plastering sqrs						44 63
Whitewashing as per chunam plastering sqrs						44 63
CHUNAM POINTING						
Basement all round	1	114	2		228	
Do	1	60	½		30	
Do	1	36	1½		54	
Total Chunam Pointing sqrs						312
Dressed stone pillars 7 × ¾ × ¾′ with base and caps complete						No
Flooring with Henkes patent clay tiles over 3′ concrete and pointed in cement—						
Side rooms	2	24	12		576	
Centre room	1	18	12		216	
Total sqrs						792
STONE FLAGGING OVER 3″ CONCRETE AND CEMENT POINTING						
Verandah	2	17½	5½		193	
Total sqrs						193
ROOFING WITH 1ST CLASS MANGALORE TILES						
End rooms	2	28½	20		1,140	
Front and rear of centre rooms	2	33+16½ / 2	10		490	
Verandah front and rear	2	18	7		252	
Total					1,887	

DESIGN No III —*concluded*

Details of work	No	Dimensions L	B	D	Contents	Total
Deduct for part of gable ends	2	$\frac{16\ 5}{2}$	10		165	
Balance Mangalore tile roofing sqrs						17 42
Ridging with Mangalore tiles					rft	90
Moulding above windows					rft	96
Moulding above ventilators (1 ght)					rft	24
Plain cornice					rft.	197
HONNEY WOOD WORK						
Valley rafters	4	11	4	6	7 33	
Common rafters 3 c. to c.	44	$8\frac{1}{2}$	3	4	31 16	
Ridge piece	2	$7\frac{1}{2}$	4	6	2 50	
Jack rafters	2 × 8	$4\frac{1}{2}$	3	4	5 66	
Collars	0	$7\frac{1}{2}$	3	4	12 00	
Rafters to veranda	2 × 7	8	3	4	9 33	
Br summers	2	20	4	6	6 66	
Wall plates	1	144	4	3	12 00	
Total Honney wood Work c. ft.						87 14
HONNEY WOOD DOORS BATTEN D						sq ft
Doors large	6	3		$6\frac{1}{2}$	113	113
HONNEY WOOD WORK WINDOWS BATTENED WITH IRON BARS						
Windows large	8	3		3	8	
Do small	8	2		3	52	
Ventilators at gable ends	4	$1\frac{1}{2}$		$1\frac{1}{2}$	8	
Total sq ft						138
Finials wooden	No				No	4
Eave board					rft	36
Sun shades large	No				No	4
Painting doors windows and ventilators	L S				sqrs	02
Zinc sheet for valley					rft	44
Levelling ground	L S				Rs	20

ABSTRACT

Items of work	Per	Rate	Quantity	Cost
		Rs a p		Rs
Earthwork excavation	c yd	0 2 0	87	11
Stone in clay (foundation and bas ment)	c ft	0 1 6	1,866	175
Burnt brick in clay (superstructure)	c ft	0 2 0	2,346	293
Burnt brick in chunam	c ft	0 2 9	668	114
Stone slabs	sq ft	0 3 0	379	71
Chunam plastering	sqr	2 8 0	44 63	112
Whitewashing	sqr	0 3 0	44 63	8
Chunam pointing	sqr	1 4 0	3 12	4
Cut stone pillars	No	10 0 0	4	40
Flooring with Henkey's patent clay tiles over 3" concrete and pointed in cement	sqr	27 0 0	7 92	213
Stone flagging over 3" concrete and cement pointing	sqr	20 0 0	1 93	39
Roofing with 1st class Mangalore tiles	sqr	18 0 0	17 22	310
Ridging with Mangalore tiles	rft	0 3 0	90	17
Moulding above windows	rft	0 1 0	96	6
Do ventilators	rft	0 0 6	24	1
Plain cornice	rft	0 3 0	197	37
Honney wood work	c ft	2 6 0	87 14	207
Honney wood doors battened	c ft	0 11 0	113	78
Do windows battened with iron bars	c ft	0 15 0	138	130
Finials wooden	each	1 0 0	4	4
Eave board	rft	0 6 0	36	14
Sun shades	No	10 0 0	4	40
Painting doors and windows	sqr	2 0 0	5 02	10
Zinc sheets for valley	rft	0 4 0	44	11
Levelling ground	L S		Rs	25
Total				1,970
Contingencies at 5 per cent				99
Grand Total				2,069

Design No IV

ESTIMATE

OF THE

PROBABLE COST OF CONSTRUCTING A VILLAGE SCHOOL BUILDING

Prepared by
M. V. H. HARVE
Superintending Engineer Central

Amount of Estimate—Rs. 2,331

DESIGN No IV

Estimate of the probable cost of constructing a Village School Building

Details of work	No	Dimension L	Dimension B	Dimension D	Contents	Total
Earthwork (Excavation)						
Longitudinal walls	4	28	2½	2	560	
Front and rear walls	4	12	2½	2	240	
Cross walls	2	4	2½	2	240	
Verandah walls	2	24	1⅝	2	156	
Steps front and rear	2	9⅓	2	¼	19	
Filling basement centre room	1	24½	12½	1½	459	
End rooms	2	23½	12½	1½	881	
Verandahs	2	24½	3⅞	1	190	
Total c ft					2745	102 c yds
Stone in clay Foundation as per excavation c ft					1215	
Basement						
Longitudinal walls	4	27½	2	2	440	
Front and rear walls	4	12½	2	2	200	
Cross walls	2	24½	2	2	196	
Verandah walls	2	24½	1⅛	1⅓	74	
Steps	2	8⅛	2	¼	6	
Total c ft					2151	
Deductions						
Sill stones of doors	6	5	2	½	30	
Steps	2	9⅓	2	⅓	12	
Total Deductions					42	
Balance stone in clay foundation and basement c ft						2109
Brick in clay						
Superstructure						
Longitudinal walls	4	97	1½	12	1944	
Front and rear walls	4	13	1½	12	936	
Cross walls		25	1½	12	900	
Gables	6	14⅓	1½	14½ / 6	315	
Total c ft					4095	

DESIGN No IV — *continued*

Details of work	No	Dimensions L	B	D	Contents	Total
Deductions						
Doors	6	3½	1½	6¾	213	
Lintel stone	6	5	1½	1½	23	
Windows	8	3½	1½	3¾	158	
Sill and lintel of windows	2×8	5	1½	½	60	
Couple windows	8	2½	1½	3¾	113	
Sill and lintel of do	2×4	7½	1½	½	45	
Ventilators and gable ends	4	2	1½	1¾	21	
Archwork of do	4	3½	1½	¾	16	
BRICK IN CHUNAM						
Cheeks of doors	6	13¼	1½	1	122	
Do windows	16	7½	1½	1	180	
Do ventilators	4	5	1½	¾	23	
Do top of walls	1	246	1½	1	369	
Total Deductions					1,043	
Balance brick in clay, c ft						2 759
Brick in chunam as per above deductions, c ft						691
PLASTERING (Interior)						
Centre room	1	76		12½	950	
Side rooms	2	74		12½	1 850	
Gable wall inside	8	13		½	225	
Outside all round	1	190		11	2 090	
Gable outside	4	16		¾	171	
Total					5 286	
Deductions						
Doors	6	3½		6¾	142	
Windows	8	3½		3¾	105	
Ventilators at gable ends	4	2		1¾	14	
Total Deductions					261	
Balance plastering with chunam, sqrs						50 25
Whitewashing as per chunam plastering, sqrs						50 25
POINTING WITH CHUNAM						
Basement outside	1	121		2	242	
Do	1	70		½	35	
Do	2	24¼		1½	74	
Total Pointing sqrs						3 51
FLOORING WITH HENKES PATENT CLAY TILES POINTED IN CEMENT						
Centre room	1	25	13		325	
Side rooms	2	24	13		624	
Total sqrs						9 49

DESIGN No IV—*concluded*

Details of work	No	Dimensions L	B	D	Contents	Total
STONE FLAGGING OVER 3 CONCRETE AND CEMENT POINTING						
Verandahs	2	25	$\frac{1}{4}$		263	
Total sqrs						263
STONE SLABS						
			average			
Sill and lintel of doors	2×6		$1\frac{3}{4}$	(6)	105	
Do windows	9×8		1	(6)	1 0	
Sills of coupled windows	4×2	7½	1	6)	90	
Sill of ventilators at gables	4	3	2	(6)	28	
Overhangs	2	9⅓	2	(⅓)	37	
Total sqr ft						380
MANGALORE TILE ROOFING						
Field rooms	2	8½	21		1 197	
Centre room	1	$\frac{4 + 9\frac{1}{2}}{2} \times 9\frac{1}{2}$			677	
Verandah	2	25	$6\frac{3}{4}$		338	
Total					2 212	
Double turning of roofs	2	81	11		187	
Balance Malabore tile roofing					sqrs	20 25
Ridge tiles					rft	90
Earth door windows and ventilators					sqrs	5 02
PLAIN CORNICE						
At eaves	1	212			rft	212
HONNEWOOD WORK						
Couple rafters 3 c to c	48	9½		4½	427	
Jack rafters	16	5	2	4	7 50	
Valley rafters	4	11½	4	6	7 66	
Collars	22	7½	3	4½	15 46	
Bessummers of verandah	2	27	4	6	9 00	
Rafters of verandah	18	7½	3	4	11 25	
Ridge piece	2	5	4	6	2 00	
Wall plates	1	146	4	3	14 66	
Total Honnewood work c ft						110 94
Mesh net for gally					rft	46
Cut stone pillars 7×4 with base and caps	4				No	4
Eave board	1	50			rf	50
Finials	4				No	4
Honnewood doors battened	6	3		6½	sq ft	113
Do windows do with iron bars	8	3		3½	78	
Do do do	8	9		3½	54	
Total sqr ft of windows						130
Honnewood ventilators at gable ends	4	1		1¼	8	sq ft 8
Moulding above ventilators at gable ends	1	30			rft	30
Moulding above windows	1	100			rft	100
Sunshade over windows	4				No	4

ABSTRACT

Items of work.	Per	Rate.	Quantity	Cost.
Earthwork—excavation	c. yd	0 2 0	102	13
Stone in clay—foundation and basement	c. ft	0 1 6	2 109	198
Brick in clay—superstructure	c ft.	0 2 0	2,752	344
Brick in chunam	c. ft	0 2 9	694	119
Plastering with chunam	sqre.	2 8 0	50 25	126
Whitewashing	sqre	0 3 0	50 25	9
Pointing with chunam	sqre	1 4 0	3 51	4
Flooring with Henke s patent clay tiles pointed in cement	sqre	27 0 0	9 49	256
Stone flagging over 3 ' concrete and cement pointing	sqre	20 0 0	2 63	53
Stone slabs	sq ft	0 3 0	330	71
Mangalore tile roofing	sqre	18 0 0	20 25	365
Ridge tiles	rft	0 3 0	90	17
Painting doors windows and ventilators	sqre	2 0 0	5 02	10
Plain cornice	rft	0 3 0	212	40
Honnewood work	c ft	2 6 0	110 94	264
Zinc sheet for valley	rft	0 4 0	46	11
Cut stone pillars 7 × $\frac{3}{4}$ × $\frac{3}{4}$ with base and caps	No	10 0 0	4	40
Eave board	No	0 6 0	50	19
Finials	No	1 0 0	4	4
Honnewood doors battened	sq ft	0 11 0	113	78
Do windows battened with iron bars	sq ft	0 15 0	130	122
Do ventilators at gable ends	sq ft.	1 4 0	8	10
Moulding above ventilators at gable ends	rft	0 0 6	30	1
Moulding above windows	sq ft	0 1 0	100	6
Sunshades over windows	No	10 0 0	4	40
Total Rupees				2,220
Contingencies at 5 per cent				111
Grand Total Rupees				2,331

Design No V

ESTIMATE OF THE PROBABLE COST OF CONSTRUCTING A VILLAGE SCHOOL BUILDING

Prepared by
M V H KARVE
Superintending Engineer
Eastern Circle.

Amount of Estimate—Rs 2,788

Estimate of the probable cost of constructing a Village School Building

Details of work.	No	Dimensions. L.	B	D	Contents	Total.
EARTHWORK (EXCAVATION)						
Longitudinal walls	4	29½	2½	2	590	
End and cross walls	8	19	2½	2	760	
Verandah walls	2	19	1⅝	2	1 4	
Steps	2	8	2	½	16	
Filling basement						
Centre room	1	19⅓	15½	1½	453	
Side rooms	4	19½	11¼	1½	1 346	
Verandah	2	19¼	3⅝	1	141	
Total Earthwork c ft					3 430	127 cyds
STONE IN CLAY						
Foundation as per Excavation c ft.					1 490	
BASEMENT						
Longitudinal walls	4	29	2	2	464	
End and cross walls	8	19½	2	2	624	
Verandah walls	2	19½	1⅛	1½	55	
Steps	2	7⅓	2	¾	22	
Total ft.					2 6o	
Edits						
Sill stones of doors	2	5	2	½	10	
Do	4	4¼	2	½	17	
Stone slabs for steps	2	8	2	⅓	11	
Total Deductions					38	
Balance Stone in Clay c ft						2 617
BRICK IN CLAY—SUPERSTRUCTURE						
Longitudinal walls	4	28½	1½	7½	1 283	
Do gables	4	27	1½	7½	729	
Front and rear walls	4	20	1½	7½	900	
Partition walls	2	20	1½	16½	990	
Cross walls	2	20	1½	11	660	
Total c. ft				2 617	4 562	
Deductions						
Doors	2	3½	1½	6¾	71	
Do	4	3¼	1½	6¼	132	
Windows	16	3½	1½	3¾	315	
Lintel over doors	2 × 2	5	1¾	½	18	
Do	2 × 4	4¾	1¾	½	33	
Sill and Lintels of windows	2 × 16	5	1½	½	120	

DESIGN No V—*continued*

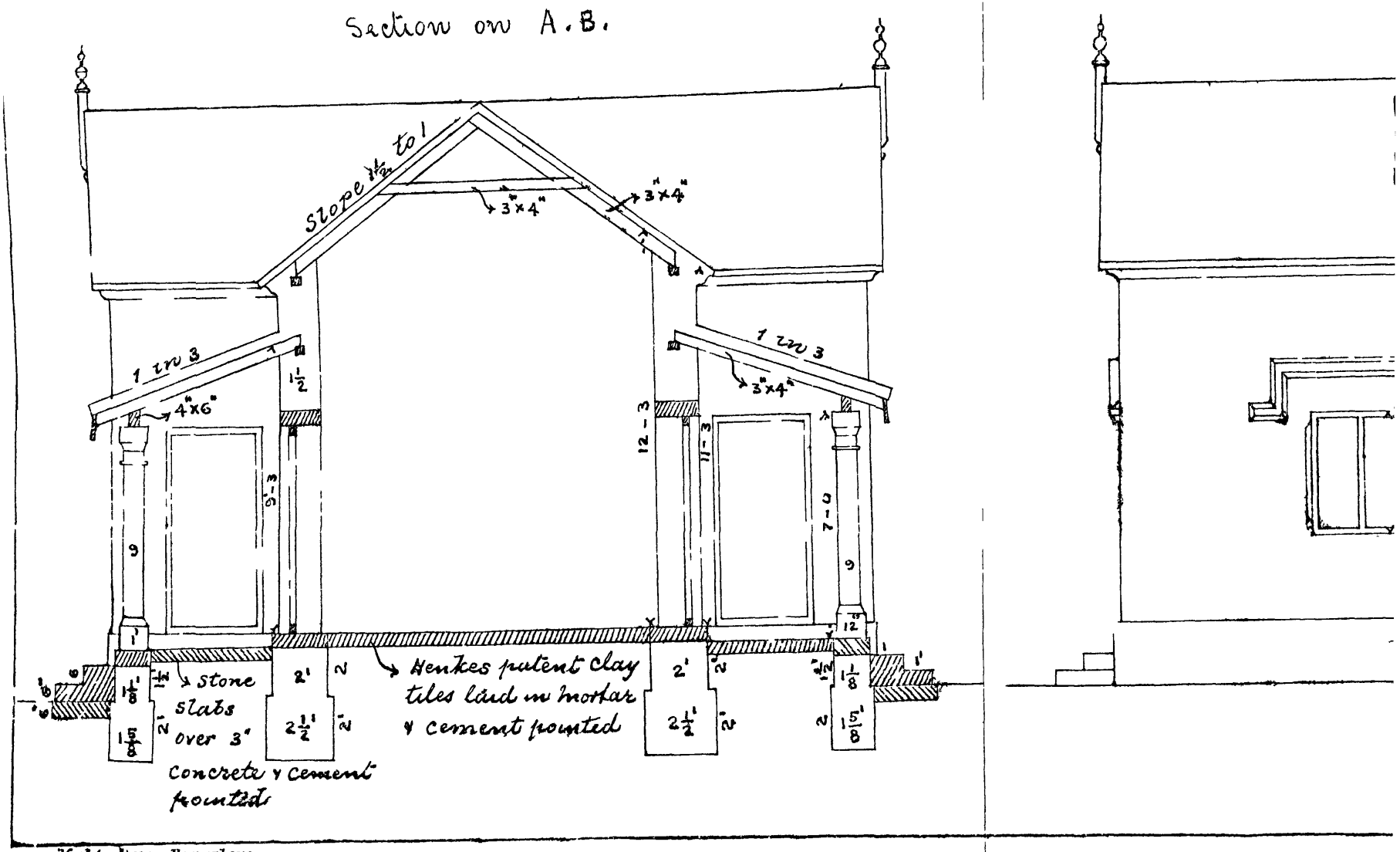
Details of work	No	Dimensions L	B	D	Contents	Total
BRICK IN CHUNAM						
To cheeks of doors	6	13½	1½	1	122	
Do windows	16	7½	1½	1	180	
Top of walls	1	304	1½	1	456	
Total Deductions					1 447	
Balance Brick in Clay c ft					3,115	
Brick in chunam as per above deductions c ft					758	
PLASTERING WITH CHUNAM						
Side rooms	4	64		11½	2,944	
Centre room	1	72		11½	828	
Do gable walls	2	16		16 / 6	85	
Outside of centre rooms	2	20		10½	420	
Sides of verandah	4	4¾		8¾	166	
Outside of side rooms	2	74½		8	1,192	
Do gables	2	28½		28½ / 6	271	
Total					5 906	
Deductions						
Doors	2	3½		6¾	47	
Do	4	3¼		6¾	88	
Windows	16	3½		3¾	210	
Total Deductions					345	
Balance plastering with chunam Sqrs						55 61
Whitewashing as per chunam plastering						55 61
POINTING WITH CHUNAM						
Basement all round outside	2	76		2	304	
Do	2	30		½	30	
Do	2	20		1½	60	
Total Sqrs						3 94
FLOORING WITH HENKE S PATENT CLAY TILES POINTED IN CEMENT						
Centre room	1	20	16		320	
Side rooms	4	20	12		960	
Total Sqrs						12 80
STONE FLAGGING OVER 3′ CONCRETE AND CEMENT POINTING						
Verandahs	2	20	5		200	
Total Sqrs						2 00

DESIGN No V—*concluded*

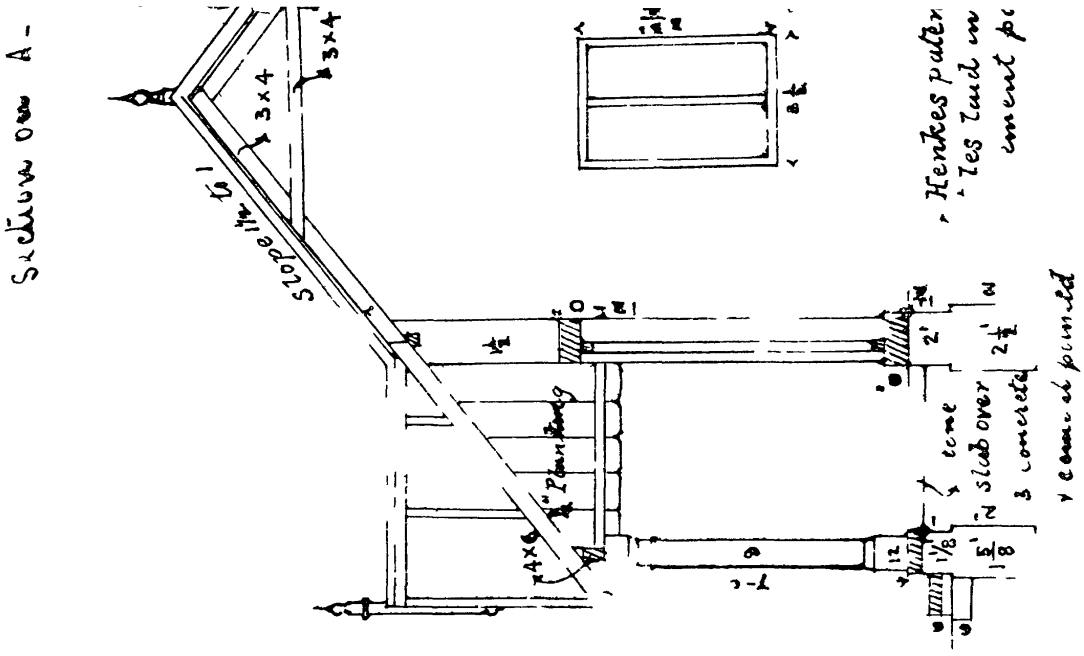
Details of work	No	Dimensions L	B	D	Contents	Total
STONE SLABS.						
Sill and Lintel of doors	× 2	5	$1\frac{3}{4}$	(6)	30	
Do do	2 × 4	$4\frac{3}{4}$	$1\frac{3}{4}$	(6)	67	
Sill and Lintels of windows	2 × 16	5	$1\frac{1}{2}$	(6)	240	
Steps	2	8		(6)	32	
Total Sqr ft						374
Cut stone Pillars 7 × $\frac{3}{4}$ × $\frac{3}{4}$ with base and cap complete No						
MANGALORE TILE ROOFING						
Front and rear of building	1	$67\frac{1}{2}$	37		2418	
Front and rear gables	2	6	$5\frac{1}{2}$		66	
Total					2764	
Deduct for part of gables	2	$\frac{8}{2}$	7		56	
Total Deductions					56	
Balance Roofing Sqrs.						2708
Ridging	1	$67\frac{1}{2}$			Rft	$6\frac{1}{2}$
Live board front and rear	1	127			Rft	127
Barge board	2	8			Rft.	16
Finials	4					4
Plain cornice	2	36			Rft	72
HONNEYWOOD WORK						
Rafters 3 c. to c	2 × 23	$18\frac{1}{2}$	3	5	8864	
Collars large	7	$11\frac{1}{2}$	3	5	838	
Do small	7	7	3		510	
Outline for side rooms	4	22	6	9	3300	
Ridge piece for gables front and rear	2	6	3	4	100	
Wall plates	1	120	4	3	1000	
Total Honneywood work c ft						14612
Honneywood Door battened	2	3		$6\frac{1}{4}$	38	
Do	4	$2\frac{3}{4}$		$6\frac{1}{4}$	69	
Total Sqr ft						107
Honneywood Windows battened with iron bars	16	3		$3\frac{1}{4}$	156	
Total Sqr ft						156
Moulding above windows	1	40			Rft	40
Sunshades No					4	
Painting doors and windows					Sqrs	526
Zinc sheet for valley					Rft.	30
Levelling ground Lump sum					Rs	60

ABSTRACT

Items of work	Per	Rate			Quantity	Cost
		Rs	a.	p		Rs
Earthwork (excavation)	C yd	0	2	0	127	16
Stone in clay (foundation and basement)	C ft.	0	1	6	2 617	245
Brick in clay (superstructure)	Do	0	2	0	3,115	389
Brick in chunam	Do	0	2	9	758	180
Plastering with chunam	Sqre	2	8	0	55 61	139
White washing	Sqre	0	3	0	55 61	10
Pointing with chunam	Sqre	1	4	0	3 94	5
Flooring with Henke s patent clay tiles pointed in cement	Sqre	27	0	0	12 8	346
Stone flagging over 3″ concrete and cement point ng	Sqre	20	0	0	2 00	40
Stone slabs	Sqr ft	0	3	0	374	70
Cut stone pillars 7 × $\frac{3}{4}$ × $\frac{3}{4}$ with base and cap complete	No	10	0	0	4	40
Mangaloie Tile roofing	Sqr	18	0	0	25 08	450
Ridging	Rft	0	3	0	67½	13
Eave board	Rft	0	6	0	127	48
Barge board	Rft	0	7	0	16	7
Finials	No	1	0	0	4	4
Plain cornice	Rft	0	3	0	72	14
Honneywood work	C ft	2	6	0	146 12	347
Honneywood doors battened	Sq ft	0	11	0	107	75
Do windows battened with iron bars	Sq ft	0	15	0	156	146
Moulding above windows	Rft	0	1	0	40	2
Sunshades	No	10	0	0	4	40
Oiling to doors and windows	Sqre	2	0	0	5 26	11
Zinc sheet for valley	Rft	0	4	0	30	8
Levelling ground, L S Rs						60
Total Rs						2,655
Contingencies at 5 per cent						133
Grand Total Rs						2,788



M & C Press Bangalore



— Design no 2 Village School building

— Scale 4' = 1"

(signed) H Kerrow
Superintending Engineer
Eastern Circle
24-8-09